Flight-Testing Newton's Laws			
2005 Science			
Content Standards			
Hawaii Science			
Grades 9-12 (Physical Science)			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-10 (1-5)	HI	SCI.9-12.SC.PS.7.3	Explain the relationship among the gravitational force, the mass of the objects, and the distance between objects
Session-1 (1-17)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-2 (1-10)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-2 (1-10)	HI	SCI.9-12.SC.PS.7.3	Explain the relationship among the gravitational force, the mass of the objects, and the distance between objects
Session-3 (1-6)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-5 (1-6)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-6 (1-8)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-7 (1-5)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-7 (1-5)	HI	SCI.9-12.SC.PS.7.3	Explain the relationship among the gravitational force, the mass of the objects, and the distance between objects
Session-8 (1-9)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects
Session-9 (1-7)	HI	SCI.9-12.SC.PS.7.1	Apply the laws of motion to determine the effects of forces on the linear motion of objects

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Session-10 (1-5)	HI	SCI.9-12.SC.PH.4.4	Analyze motion in terms of position, time, velocity and acceleration, both quantitatively and qualitatively
Session-10 (1-5)	HI	SCI.9-12.SC.PH.4.6	Use Newton's Laws (e.g., F = ma) together with the kinematic equations to predict the motion of an object
Session-1 (1-17)	HI	SCI.9-12.SC.PH.4.4	Analyze motion in terms of position, time, velocity and acceleration, both quantitatively and qualitatively
Session-1 (1-17)	HI	SCI.9-12.SC.PH.4.6	Use Newton's Laws (e.g., F = ma) together with the kinematic equations to predict the motion of an object

Session-2 (1-10)	HI	SCI.9-12.SC.PH.4.6	Use Newton's Laws (e.g., F = ma) together with the kinematic equations to predict the motion of an object
Session-3 (1-6)	HI	SCI.9-12.SC.PH.4.4	Analyze motion in terms of position, time, velocity and acceleration, both quantitatively and qualitatively
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